KENNETH A. ROSE

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EDUCATION:
Ph.D., Fisheries, University of Washington, 1985.
M.S., Fisheries, University of Washington, 1981.
B.S., Biology and Mathematics, State University of New York at Albany, 1975.

PROFESSIONAL EXPERIENCE:
2001 - present Professor, Louisiana State University
(named EL Abraham Distinguished Professor in Louisiana Environmental Sciences – 2009)
1998 - 2001 Associate Professor, Louisiana State University
1987 - 1998 Scientist, Oak Ridge National Laboratory
1983 - 1987 Consultant, Martin Marietta Environmental Systems

PROFESSIONAL INTERESTS:
Develop and apply mathematical and simulation models to better understand and forecast the effects of natural and anthropogenic factors on aquatic population populations and communities; use of models in resource management and risk assessment.

TEN EXAMPLE PUBLICATIONS (from a total greater than 120)
Rose, K.A. 2000. Why are quantitative relationships between environmental quality and fish populations so elusive? Ecological Applications 10: 367-385.

Clark, J.S., S. Carpenter, M. Barber, S. Collins, A. Dobson, J. Foley, D. Lodge, M. Pascual, R. Pielke, W. Pizer, C. Pringle, W. Reid, K. Rose, O. Sala, W. Schlesinger, D. Wall, and D. Wear. 2001. Ecological forecasts: an emerging imperative. Science 293: 657-660.

Rose, KA., J.H. Cowan, K.O. Winemiller, R.A. Myers, and R. Hilborn. 2001. Compensatory density-dependence in fish populations: importance, controversy, understanding, and prognosis. Fish and Fisheries 2: 2930327.

Rose, K.A., and J.H. Cowan. 2003. Data, models, and decisions in US marine fisheries management: lessons for ecologists. Reviews for Ecology, Evolution and Systematics 34: 127-151.

Rose, K.A. 2005. Lack of relationship between fish population responses and their life history traits: inaccurate models, incorrect analyses, or importance of site-specific factors. Canadian Journal of Fisheries and Aquatic Sciences 62: 886-902.

Roth, B.M., K.A. Rose, L.S. Rozas, and T.J. Minello. 2008. The relative influence of landscape configuration and inundation on brown shrimp (*Farfantepenaeus aztecus*) production in northern Gulf of Mexico salt marshes. Marine Ecology Progress Series 359:185-202.

Murphy, C.A., K.A. Rose, M.S. Rahman, and P. Thomas. 2009. Testing and applying a fish vitellogenesis model to evaluate laboratory and field biomarkers of endocrine disruption in Atlantic croaker (*Micropogonias undulatus*) exposed to hypoxia. Environmental Toxicology and Chemistry 28: 1288–1303

Rose, K.A. A.T. Adamack, C.A. Murphy, S.E. Sable, S.E. Kolesar, J.K. Craig, D.L. Breitburg, P. Thomas, M.H. Brouwer, C.F. Cerco, S. Diamond. 2009. Does hypoxia have population-level effects on coastal fish? Musings from the virtual world. Journal of Experimental Marine Biology and Ecology. doi:10.1016/j.jembe.2009.07.022.

Breitburg, D. L., Craig, J.K., Fulford, R.S., Rose, K.A., Boynton, W.R., Brady, D., Ciotti, B.J., Diaz, R.J., Friedland, K.D., Hagy, J.D., Hart, D.R., Hines, A.H., Houde, E.D., Kolesar, S.E., Nixon, S.W., Rice, J.A., Secor,D.H., and Targett, T.E. in press. Nutrient enrichment and fisheries exploitation: interactive effects on estuarine living resources and their management. Hydrobiologia.

Ito, S., K.A. Rose, A.J. Miller, K. Drinkwater, K.M. Brander, J.E. Overland, S. Sundby, E. Curchitser, J.W. Hurrell, and Y. Yamanaka. In press. Ocean ecosystem responses to future global change scenarios: A way forward. Marine Ecosystems and Global Change. Oxford University Press.

SYNERGISTIC ACTIVITIES

Fellow, American Associate for the Advancement of Science Associate

Editor, Trans. Am. Fish. Society (1995-97), Ecological Applications (1997-00), Can. J. Fish Aquat. Sciences (08-), Marine and Coastal Fisheries (08-), San Francisco Estuary and Watershed Science (08-).

Member, Reef Fish Stock Assessment Panel, Gulf of Mexico Council, 1998-2006

Member, Independent Science Board of the CALFED Bay Authority (term over)

Member, Review Panel of the CALFED Environmental Water Account (6 years)

Member, Independent review panel of the Long-Term Central Valley Project (CVP) and State Water Project (SWP) Operations Criteria and Plan (OCAP) Biological Opinion on Salmon, January 2009.

Member, Independent review panel of the Long-Term Central Valley Project (CVP) and State Water Project (SWP) Operations Criteria and Plan (OCAP) Biological Opinion on Delta Smelt, Convened by the US Fish and Wildlife Service, November 2008.

Member, Independent review panel of the Delta Risk Management Strategy for the San Francisco Bay ecosystem, 2007-2008.

Member, Review Team of NOAA's Biological Opinion on Endangered Salmon in the San Francisco Estuary, 2005.

Member, Ecosystem Management Science and Statistical Committee for the Gulf of Mexico Fisheries Management Council.

Member, Scientific Steering Committee of the NSF-sponsored Bering Sea Study (BEST) Program.

Member, Scientific Steering Committee of the US GLOBEC Program.

Plenary Speaker, Complex Systems Theory, Post-Modernism, and Science and Scientists in the CALFED Era. 2006 CALFED Science Conference, Sacramento, Oct 2006.

Plenary Speaker, Fisheries Science and Management: New Era of Collaboration or Business as Usual?, American Fisheries Society 133rd Annual Meeting, Quebec City, Aug 2003.